NEUROPATHOLOGY AND APPLIED NEUROBIOLOGY

Journal of the British Neuropathological Society

Editor
J. B. CAVANAGH

Editorial Board
G. ALLT
E. J. EBELS
MARGARET ESIRI
P. L. LANTOS
A. C. PALMER
M. SWASH

1983
Volume Nine

BLACKWELL SCIENTIFIC PUBLICATIONS
OXFORD LONDON EDINBURGH BOSTON MELBOURNE

© 1983 Blackwell Scientific Publications
Osney Mead, Oxford OX2 0EL
8 John Street, London WC1N 2ES
9 Forrest Road, Edinburgh EH1 2QH
52 Beacon Street, Boston, Mass. 02108, USA
99 Barry Street, Carlton, Victoria 3053, Australia

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior permission of the copyright owner

Set in Monophoto Century Schoolbook

Printed in Great Britain
by The Whitefriars Press Ltd, Tonbridge

CONTENTS

Number 1, Jan/Feb 1983

1 Editorial

3 Pathological basis for neurotransmitter changes in Parkinson's disease
D. M. A. Mann and P. O. Yates

21 Structural change in muscles of the dystrophic chicken. I. Quantitative indices
J. A. Pizzey and E. A. Barnard

39 Early changes in the rat hippocampus following seizures induced by bicuculline or L-allylglycine: a light and electron microscope study
Mary Evans, T. Griffiths and B. Meldrum

53 The effect of ethanol on the cellular composition of the cerebellum
S. Borges and P. D. Lewis

61 Crystalline aggregates of protein-glycogen complexes (alias 'virus-like particles') in skeletal muscle: report of a case and review of the literature
L. Palmucci, A. P. Anzil and S. Luh

73 Proceedings of the sixty-third meeting of the British Neuropathological Society held at Churchill College, Cambridge, 15–16 July 1982

83 Book reviews

86 Obituary

Number 2, Mar/Apr 1983

87 Annotation
The morphological effects of lead on the developing central nervous system
C. Winder, L. L. Garten and P. D. Lewis

109 A model of chronic spinal cord compression in the cat
C. J. Fish and W. F. Blakemore

121 Denervation caused by tullidora (*Karwinskia humboldtiana*)
E. J. Muñoz-Martinez, J. Cueva and P. Joseph-Nathan

135 A quantitative method for comparing the distribution of cerebral trauma in closed-head injuries with and without tentorial herniation
P. H. Gibson

149 Structural change in muscles of the dystrophic chicken. II. Progression of the histopathology in the pectoralis muscle
J. A. Pizzey and E. A. Barnard

165 Brief report
Abnormal perisomatic structures in non-pyramidal neurons in the cerebral cortex in Down's syndrome
I. Fabregues and I. Ferrer

171 Book reviews

Number 3, May/June 1983

175 The Nucleus Basalis in Alzheimer's disease: cell counts and cortical biochemistry
G. K. Wilcock, M. M. Esiri, D. M. Bowen and C. C. T. Smith

181 Basement membrane surfaces and perivascular compartments in normal human brain and glial tumours. A scanning electron microscope study
I. Sapsford, Jean Buontempo and R. O. Weller

195 The neuropathy resulting from muscle-nerve translocation
I. D. Duncan

207 Cell proliferation and DNA-synthesis in the external granular layer of the postnatal rat cerebellum: a quantitative study
H. Koppel and P. D. Lewis

215 The effect of maternal and fetal thyroidectomy on fetal brain development in the sheep
G. H. McIntosh, B. J. Potter, M. T. Mano, C. H. Hua, B. G. Cragg and B. S. Hetzel

225 Electron microscopic observations on malignant choroid plexus papilloma
T. H. Moss

237 Chronic relapsing experimental allergic encephalomyelitis: cerebrospinal fluid cytology and a comparison with meningeal and spinal cord pathology
A. J. Suckling, N. R. Wilson, J. A. Kirby and M. G. Rumsby

251 Plasma membrane pores of the Schwann cell in Wallerian degeneration: a morphometric analysis
P. H. Abrahams, A. Day and G. Allt

Number 4, July/Aug 1983

261 Annotation
Immunization against whooping cough: a neuropathological review
J. A. N. Corsellis, I. Janota and A. K. Marshall

271 Bilirubin encephalopathy
Anthea J. Sherwood and J. F. Smith

287 Light microscope and immunohistological investigations on the brain of Borna disease virus-infected rabbits
W. Roggendorf, S. Sasaki and H. Ludwig

297 Neuronal death in the development and aging of the cerebral cortex of the mouse
D. Heumann and G. Leuba

313 Effect of myocrisin (sodium auro-thio-malate) on the morphogenesis of avirulent Semliki Forest virus in mouse brain: an electron microscopical study
Snehlata Pathak and H. E. Webb

329 Proceedings of the sixty-fourth meeting of the British Neuropathological Society

339 Book reviews

Number 5, Sept/Oct 1983

345 Neurotoxicity of vincristine after the osmotic opening of the blood-brain barrier
K. Tomiwa, F. Hazama and H. Mikawa

355 'Shaking pups': a disorder of central myelination in the spaniel dog. III. Quantitative aspects of glia and myelin in the spinal cord and optic nerve
I. D. Duncan, I. R. Griffiths and M. Munz

369 'Shaking pups': a disorder of central myelination in the spaniel dog. IV. Freeze-fracture electron microscopic studies of axons, oligodendrocytes and astrocytes in the spinal cord white matter
G. M. Bray, I. D. Duncan and I. R. Griffiths

379 Form and distribution of senile plaques seen in silver impregnated sections in the brains of intellectually normal elderly people and people with Alzheimer-type dementia
P. H. Gibson

391 Glial bundles in spinal nerve roots: a form of isomorphic gliosis at the junction of the central and peripheral nervous system
N. R. Ghatak

403 Cerebral ischaemia in the rat: increased permeability of post-synaptic membranes to horseradish peroxidase in the post-ischaemic period
N. H. Diemer and D. K. J. Ekström Von Lubitz

415 Book reviews

Number 6, Nov/Dec 1983

419 The permeability of the basal lamina at the neuromuscular junction. An ultrastructural study of rat skeletal muscle using particulate tracers
A. Oldfors and M. Fardeau

433 Histochemical and biochemical studies of butyrylcholinesterase activity in adult and developing cerebellum. Effects of abnormal thyroid state and undernutrition
Ch. Legrand, M. S. Ghandour and J. Clos

455 An ultrastructural study of the early stages of axonal regeneration through rat nerve grafts
P. N. Anderson, J. Mitchell, D. Mayor and V. V. Stauber

467 Aging of dendrites in the cerebral cortex of the mouse
G. Leuba

477 Brief report
Aspergillosis of the nervous system. Report of two cases
J. V. Diengdoh, R. O. Barnard and D. G. T. Thomas

485 Proceedings of the sixty-fifth meeting of the British Neuropathological Society held at the Southern General Hospital, Glasgow, 7–8 July 1983

495 Obituary

498 Book reviews

501 Author and subject index to Volume 9